This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A system for testing a transformer comprising:

a processor comprising a transformer test engine adapted to execute a user-changeable transformer test sequence comprising a plurality of user-selected tests and instructions in a user-defined order of execution;

a controller coupled to the processor to output control commands;

a switcher coupled between the controller and the transformer to switch power to the controller responsive to the control commands; and

a metering system coupled between the transformer and the processor to receive measurements from the transformer and provide the measurements to the processor.

2. (original) The system of claim 1, further comprising a memory device coupled to the processor for storing transformer specifications.

3. (original) The system of claim 1, further comprising a memory device for storing the transformer test sequence.

4. (original) The system of claim 1, wherein the processor further comprises a test sequence editor to allow customization of the transformer test sequence.

5. (original) The system of claim 4, further comprising an input device for receiving commands into the test sequence editor.

6. (original) The system of claim 1, wherein the transformer test sequence comprises a plurality of test instructions and associated parameters.

7. (currently amended) A method for testing a transformer comprising:

connecting the transformer to a processor comprising a transformer test engine;

loading a user-changeable customized transformer test sequence comprising a plurality of user-selected tests and instructions in a user-defined order of execution into the processor; and

executing the customized transformer test sequence with the transformer test engine.

8. (original) The method of claim 7, further comprising:

providing results of the execution to the processor;

providing transformer specifications to the processor; and

determining whether the transformer passes responsive to the results and the transformer specifications.

9. (original) The method of claim 8, further comprising activating an indicator responsive to the step of determining.

10. (original) The method of claim 8, further comprising storing the results in a memory device.

11. (original) The method of claim 7, further comprising receiving the customized transformer test sequence prior to loading.

12. (original) The method of claim 7, wherein executing the customized transformer test sequence comprises sequentially executing a plurality of test instructions with associated parameters until one of the end of the sequence is reached and an abort command is received.

13. (currently amended) A method for creating or editing a customized transformer test program comprising:

receiving a user selection of ~~selecting~~ at least one test instruction or pre-existing sequence of test instructions from a plurality of transformer test instructions;

providing at least one associated parameter for each of the selected test instructions or pre-existing sequence of test instructions; ~~and~~

receiving a user-defined ~~defining an~~ order of execution of each of the test instructions; and

generating a user-changeable transformer test sequence comprising the at least one user-selected test instruction or pre-existing sequence of test instructions in the user-defined order of execution.

14. (original) The method of claim 13, further comprising storing the order of execution of each of the test instructions.

15. (original) The method of claim 13, further comprising executing the test instructions in accordance with the order.

16. (currently amended) The method of claim 13, further comprising receiving an input command, and wherein the step of ~~selecting~~ receiving a user selection is performed in response to the input command.

17. (canceled)

18. (currently amended) A computer readable medium having computer-executable instructions for performing the steps comprising:

receiving a user selection of ~~selecting~~ at least one test instruction or pre-existing sequence of test instructions from a plurality of transformer test instructions;

providing at least one associated parameter for each of the selected test instructions or pre-existing sequence of test instructions; ~~and~~

receiving a user-defined ~~defining an~~ order of execution of each of the test instructions; and

generating a user-changeable transformer test sequence comprising the at least one user-selected test instruction or pre-existing sequence of test instructions in the user-defined order of execution.

19. (original) The computer readable medium of claim 18, having further computer-executable instructions for storing the order of execution of each of the test instructions.

20. (original) The computer readable medium of 18, having further computer-executable instructions for executing the test instructions in accordance with the order.

21. (currently amended) The computer readable medium of 18, having further computer-executable instructions for receiving an input command, and wherein the step of ~~selecting~~ receiving a user selection is performed in response to the input command.

22. (canceled)

23. (currently amended) In a computer implemented device having a computer readable storage medium having computer executable components, the computer executable components comprising:

a data store for storing a user-changeable transformer test sequence comprising a plurality of user-selected transformer tests and instructions to be performed in a user-defined order of execution on a transformer by a transformer test engine; and

a processor for reading the transformer test sequence and directing the transformer test engine to operate in accordance with the transformer test sequence.

24. (original) The device of claim 23, wherein the data store further stores transformer specifications.

25. (original) The device of claim 23, wherein the processor further receives commands for creating and editing the transformer test sequence.

26. (original) The device of claim 23, wherein the transformer test sequence comprises a plurality of test instructions and associated parameters.